



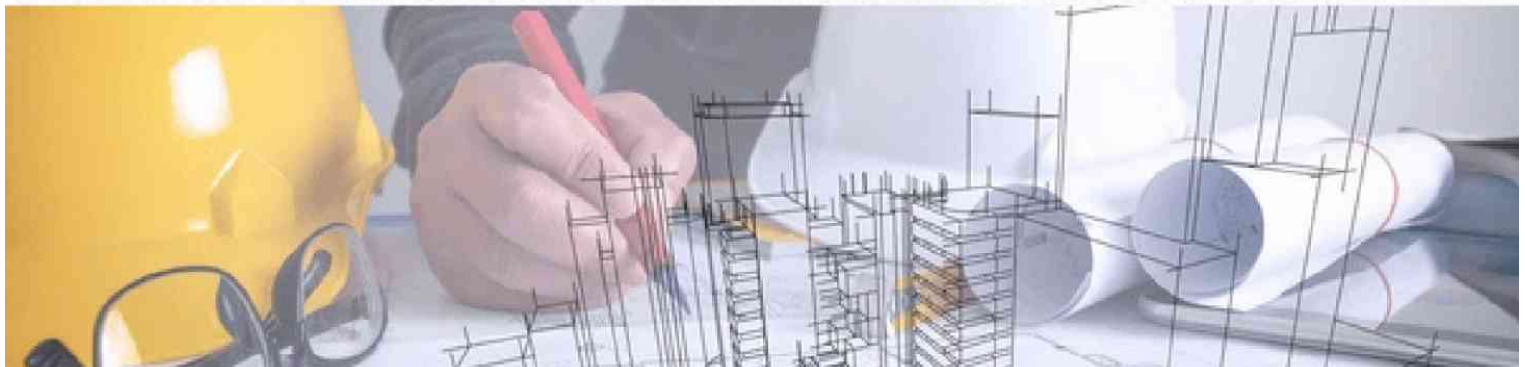
DEPARTMENT OF CIVIL ENGINEERING

Volume 23, Issue 2

CONSTRUCTIVE MINDS

Civil Newsletter

January - June 2025



K.S.R.COLLEGE OF ENGINEERING

(AN AUTONOMOUS INSTITUTION)

(APPROVED BY AICTE, NEWDELHI, AFFILIATED TO ANNA UNIVERSITY & ACCREDITED BY NAAC(A'') & NBA)

K.S.R. KALVI NAGAR, TIRUCHENGODE-637215, NAMAKKAL DISTRICT, TAMIL NADU.

EDITORIAL BOARD

The Editorial Board is a permanent committee of the college responsible for publishing the college newsletter on a biannual basis. The newsletter serves as a regular channel of communication and information-sharing among the faculty and students of the institution. Its primary objective is to present, in an accessible format, updates on the college's growth, achievements of staff and students, events conducted or attended, competitions won, and emerging trends in technology. Moreover, it aims to offer a creative platform for both faculty and students to showcase their literary and intellectual talents through technical or philosophical articles, poetry, short stories with moral lessons, and other academically significant content thereby promoting diverse perspectives and voices.

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Vision of the Institution

To become a globally renowned institution in Engineering and Management, committed to providing holistic education that fosters research, innovation and sustainable development.

Mission of the Institution

- Deliver value-based quality education through modern pedagogy and experiential learning.
- Enrich Engineering and Managerial Skills through cutting-edge laboratories to meet evolving global demands.
- Empower research and innovation by integrating collaboration, social responsibility and commitment to sustainable development.

Vision of the Department

To develop premier Civil Engineers through education, fostering innovation and research to create a sustainable environment.

Mission of the Department

- Provide value-based education using advanced teaching methods and experiential learning.
- Nurture engineers with advanced technical competencies through cutting-edge laboratories.
- Promote research, foster innovation, and strengthen industry collaboration, addressing environmental challenges through sustainable solutions.

About the Department

Established in 2002, the Department aims to advance education quality, achieve academic excellence, and promote research and consultancy to benefit the community and industry. With advanced laboratories, skilled faculty, modern equipment, and professional software, the department offers B.E. Civil Engineering, M.E. - Structural Engineering, M.E. - Construction Engineering. The department features well-equipped laboratories designed to meet the requirements of both undergraduate and postgraduate programs, in addition to providing consultancy and material testing services.

Recognized as an authorized research center by Anna University, Chennai, the department facilitates Ph.D. programs and advanced research. With 36 Ph.D. scholars successfully graduated. Most of our alumni serving in government sectors, the department exemplifies academic excellence. Our consultancy projects drive innovation and support industries and students in research and product development. Notable clients include the District Rural Development Agency (DRDA), Public Works Department, Municipalities, Southern Railway, and private organizations. We are dedicated to fostering societal and industrial progress through impactful research and collaboration.

DEPARTMENT ACTIVITIES

INKING OF MoU WITH TECHAPPS CONSULTING, CHENNAI

DATE: 25.01.2025

RESOURCE PERSON: **Mr. Rajesh Kumar, Director - Technical Sales, TechApps Consulting, Chennai**

K.S.R. College of Engineering (KSRCE) entered into a Memorandum of Understanding (MoU) with TechApps Consulting, Chennai an authorized partner of Bentley Systems, is widely recognized for its proficiency in infrastructure engineering software solutions and its excellence in delivering professional training on 25th January 2025.



HANDS ON TRAINING IN INNOVATIVE STRUCTURAL ANALYSIS AND DESIGN USING STAAD FOR BEGINNERS

DATE: 25.01.2025

RESOURCE PERSON: **Mr. Rajesh Kumar, Director -Technical Sales, TechApps Consulting, Chennai**

A hands-on training on Innovative Structural Analysis and Design using STAAD was organized on 25.01.2025 for beginners. The program focused on the fundamentals of modeling, applying loads, and analyzing structures using STAAD. Participants were introduced to essential design tools and guided on interpreting analysis results.



INAUGURATION COE - CENTRE FOR SMART INFRASTRUCTURE AND RESEARCH

DATE: 05.02.2025

RESOURCE PERSON: **Mr. Rajesh Kumar, Director -Technical Sales, TechApps Consulting, Chennai**

The Centre for Smart Infrastructure and Research has been established through a strategic Memorandum of Understanding (MoU) signed with Bentley Systems, a global leader in infrastructure engineering software. This collaborative initiative aims to drive innovation, research, and skill development in the field of smart infrastructure. The Centre serves as a hub for advanced learning, applied research, and industry-oriented training in digital infrastructure solutions.



HANDS ON TRAINING STAAD PRO AND TRAINING PORTAL ACCESS FOR CIVIL ENGINEERING STUDENTS ON 05.02.2025

DATE: 05.02.2025

RESOURCE PERSON: **Mr. Rajesh Kumar, Director -Technical Sales, TechApps Consulting, Chennai**

A skill development session on STAAD Pro and Training Portal Access was held on 05.02.2025. Civil Engineering students learned structural modeling, analysis, and design using STAAD Pro. They received access to a dedicated portal for continuous, self-paced learning. The session boosted practical skills and technical confidence in structural design.



TNSCST SPONSORED NATIONAL LEVEL SEMINAR ON INNOVATION IN CIVIL ENGINEERING MATERIALS AND CONSTRUCTION TECHNOLOGIES

DATE: 06.02.2025 & 07.02.2025

RESOURCE PERSON: Dr. P.S. Ambily, CSIR-SERC, Chennai

Dr. P.S. Ambily from CSIR-SERC, Chennai, delivered a session on Concrete 3D Printing, emphasizing its cost-efficiency and rapid construction benefits. Key topics included mix design, fresh concrete properties, and tests like mini slump and flow. A trial mix, 3DPC-OT4, demonstrated excellent printability with 40 minutes open time. Sustainable materials such as copper slag and geopolymers were also discussed.



SEMINAR ON HERITAGE CONSTRUCTION

DATE: 07.02.2025

RESOURCE PERSON: Er. S. Rajendran, Conservation Engineer

Er. S. Rajendran, Conservation Engineer, delivered a session on 'Heritage Construction' with emphasis on the Brihadeeswarar Temple in Thanjavur. He highlighted its earthquake-resistant features, advanced drainage, and stone-lifting using inclined planes. The talk covered conservation methods like chemical cleaning and structural reinforcement. He emphasized integrating traditional techniques with modern methods for sustainable preservation.



INKING OF MOU WITH ER.T.VENKATARAMANAN AND ITS ASSOCIATES

DATE: 18.02.2025

RESOURCE PERSON: **Er.T.Venkataramanan, Approved Valuer and Chartered Engineer, Coimbatore**

K.S.R. College of Engineering (KSRC) signed a Memorandum of Understanding (MoU) with Er. T. Venkataramanan Associates, Coimbatore – a leading consultancy firm in property valuation and engineering advisory on 18th February 2025, aiming to provide students with hands-on exposure to real-time valuation practices, professional ethics, and field-based learning.



INTRODUCTION TO BENTLEY TRAINING PORTAL ACCESS FOR FACULTY

DATE: 19.02.2025

RESOURCE PERSON: **Mr. Rajesh Kumar, Director -Technical Sales, TechApps Consulting, Chennai**

Hands-on training in the Introduction to Bentley Training Portal for Faculty offers practical guidance on navigating the platform effectively. Faculty will learn how to access course materials, manage training modules, and utilize available tools. The session includes step-by-step demonstrations and real-time practice opportunities. This training ensures confident and efficient use of the portal for enhanced teaching support.



SEMINAR ON EXPLORING CURRENT OPPORTUNITIES IN CIVIL ENGINEERING AND PROVEN STRATEGIES TO GET TOP OFFER

DATE: 19.02.2025

RESOURCE PERSON: Mr.T.Vivek, Software Trainer, Cadd Centre, Salem.

A seminar on “Exploring Current Opportunities in Civil Engineering and Proven Strategies to Get Top Offers” was conducted on 19.02.2025. The session focused on emerging career paths, industry demands, and skillsets valued by top employers. Experts provided guidance on resume building, interview techniques, and job market trends. It equipped students with practical strategies to secure high-impact roles in the civil engineering sector.



INDUSTRY ACADEMIA CONNECT WITH ENVOSOLUTION PRIVATE LIMITED

DATE: 21.02.2025

RESOURCE PERSON: Mr.T. Prakash, Engineer - Business Development, Envosolution Private limited, Coimbatore

An Industry Academia Connect session with Envosolutions Private Limited, Coimbatore, was held on 21.02.2025. The session focused on sustainable engineering practices and environmental solutions in the construction sector. Industry experts shared real-time project experiences and the role of innovation in green infrastructure. It strengthened academic-industry collaboration and exposed students to practical environmental applications.



ONSITE SESSION ON THE ART OF LOAD TRANSFORMATION: A KEY TO EFFICIENT STRUCTURAL DESIGN

DATE: 27.02.2025

RESOURCE PERSON: **Dr.G.S.Venkatasubramani, CEO, S.G.Structural Engineers, Coimbatore**

An onsite session on "The Art of Load Transformation: A Key to Efficient Structural Design" was held on 27.02.2025. The session focused on understanding how loads are transferred through structural elements. Participants explored concepts critical to achieving stability and efficiency in design. It enhanced analytical thinking and foundational knowledge in structural engineering



GO GREEN 2.0 PROJECT INSPECTION

DATE: 04.03.2025

RESOURCE PERSON: **Sri. A. Ravikumar, Deputy Director, IEDS, MSME – DFO, Chennai**

As part of the institution's continuous efforts to promote sustainability and environmental awareness, K.S.R. College of Engineering hosted the inspection of the "Go Green 2.0" initiative on March 04, 2025. The event was graced by Sri. A. Ravikumar, Deputy Director, IEDS, MSME – DFO, Chennai, who conducted a thorough review of the project's progress and its eco-entrepreneurial outcomes.



SEMINAR ON INNOVATIVE TRENDS AND ENTREPRENEURIAL OPPORTUNITIES IN MODERN CIVIL ENGINEERING

DATE: 08.03.2025

RESOURCE PERSON: Mr.M.D. Kavin Kumar, Junior Cadd Designer, Rebar D&D, Chennai.

A seminar on “Innovative Trends and Entrepreneurial Opportunities in Modern Civil Engineering” was conducted on 08.03.2025. The session explored advancements in construction technology, smart materials, and sustainable practices. Speakers highlighted entrepreneurial pathways and startup potential in the civil engineering domain. It motivated students to embrace innovation and consider entrepreneurship as a career option.



SKILL INDIA TRAINING PROGRAM - PMKVY

DATE: 11.03.2025

RESOURCE PERSON: Ministry of Skill Development and Entrepreneurship

As part of the nationwide Skill India Mission, a specialized training program on “Solar LED Technician” was organized at K.S.R. College of Engineering on March 11, 2025. The program was conducted under the flagship scheme Pradhan Mantri Kaushal Vikas Yojana (PMKVY), supported by the Ministry of Skill Development and Entrepreneurship (MSDE), Government of India.



FACULTY TRAINING ON BUILDING AND LAND VALUATION

DATE: 14.03.2025

RESOURCE PERSON: **Er.T.Venkataramanan, Approved Valuer and Chartered Engineer, Coimbatore**

Faculty Training on Building and Land Valuation provides essential knowledge on assessing property values using industry standards. The training covers valuation methods, legal aspects, and practical case studies. Participants gain hands-on experience with tools and techniques used in real-world scenarios. This program enhances faculty expertise for effective teaching in real estate and valuation courses.



HANDS ON TRAINING INNOVATIVE STRUCTURAL MODELING AND PERFORMANCE SIMULATION USING STAAD.PRO FOR SMART AND SUSTAINABLE DESIGN

DATE: 26.03.2025 & 27.03.2025

RESOURCE PERSON: **Mr.C.Praveen Raj, Technical Manager, KHAAS Group, Chennai**

A hands-on training on Innovative Structural Modeling and Performance Simulation using STAAD.Pro was conducted on 26.03.2025 and 27.03.2025. The session emphasized smart and sustainable design practices through advanced modeling techniques. Participants learned to simulate structural behavior and assess performance using STAAD.Pro. It enhanced skills in creating efficient, eco-friendly structural solutions.



HANDS ON TRAINING IN INNOVATIVE APPROACH TO MANUAL LOAD DISTRIBUTION IN FRAMED STRUCTURES: A COMPARATIVE STUDY WITH STAAD CONNECTION

DATE: 03.04.2025

RESOURCE PERSON: Mr.R.Udhayasankar, MD, BTR Constructions, Bhavanisagar

Hands-on training was conducted on manual load distribution in framed structures, focusing on practical understanding of structural behavior. Participants manually calculated load paths and force distribution across beams and columns. The results were compared with STAAD software outputs to highlight accuracy and efficiency. This session bridged theoretical concepts with modern software application in structural analysis.



FOURTH INTERNATIONAL CONFERENCE ON INFORMATION TECHY, SCIENCE AND MANAGEMENT ICITSM'25

DATE: 28.04.2025 & 29.4.2025

RESOURCE PERSON: Dr. L. K. Rex, Consultant - Civil & Structural Engineering, M/s. Mavika Tech, Mugalivakkam,

The Department of Civil Engineering at K.S.R. College of Engineering successfully organized the Fourth International Conference on Information Technology, Science, and Management (ICITSM'25) on April 28 and 29, 2025. The conference provided a dynamic and multidisciplinary platform for academicians, industry experts, researchers, and students to exchange insights and innovations in the areas of technology, science, and management.



THREE DAYS FACULTY DEVELOPMENT PROGRAM ON AUTODESK REVIT ARCHITECTURE

DATE: 28.05.2025 to 30.05.2025

RESOURCE PERSON: Mr.J Vimal Prabhu, Manager - Training & Support, USAM CAD Soft, Coimbatore.

A three-day Faculty Development Program on Autodesk Revit Architecture was organized to enhance digital design skills. Participants created Autodesk login accounts and explored the Revit Architecture interface and tools. Training covered modeling techniques, component placement, and building design workflows. The program aimed to strengthen faculty proficiency in BIM-based architectural design.



EXTENSION ACTIVITIES

ORGAN DONATION PLEDGE

DATE: 13.02.2025

PARTICIPANTS: Students of Department of Civil Engineering, KSRCE

In a remarkable gesture of humanity and social responsibility, the Civil Engineering Department of K.S.R. College of Engineering organized an Organ Donation Awareness and Pledge Drive on February 13, 2025. The initiative aimed to educate students about the importance of organ donation and encourage them to make a life-saving commitment.



TREE PLANTATION

DATE: 15.02.2025

PARTICIPANTS: Students of Department of Civil Engineering, KSRCE

The Department of Civil Engineering at K.S.R. College of Engineering organized a Tree Plantation Program on February 15, 2025, with the aim of promoting environmental sustainability and enhancing the green cover within the campus. It reflected the institution's ongoing commitment to green campus initiatives and sustainability-driven education.



KAAVAL UTHAVI APP INSTALLATION AND AWARENESS

DATE: 19.03.2025

RESOURCE PERSONS: **TamilNadu Police**

To promote safety, security, and digital awareness among youth, K.S.R. College of Engineering organized a special session on “Kaaval Uthavi App Installation and Awareness” on March 19, 2025, for the benefit of all students and staff. The main objective of the session was to create awareness among students about the “Kaaval Uthavi” mobile application, a digital initiative launched by the Tamil Nadu Police Department to offer quick access to emergency police services through smartphones.



WORLD WATER DAY CELEBRATION

DATE: 24.03.2025

RESOURCE PERSON: **Dr.S.Senthilkumar, Professor in Civil, KSRCE & National Cadet Corps**

As part of the global observance of World Water Day, K.S.R. College of Engineering, in collaboration with the National Cadet Corps (NCC), conducted a series of awareness programs on March 24, 2025. This year's World Water Day theme, “Water for Peace”, emphasized the importance of water conservation, equitable access, and cooperation in managing our most vital natural resource.



GOOD DEEDS DAY

DATE: 03.04.2025

PARTICIPANTS: Students of Department of Civil Engineering, KSRCE

As part of the global Good Deeds Day celebration, the Department of Civil Engineering at K.S.R. College of Engineering organized a special event on April 3, 2025, themed “The Ripple Effect: Save Water, Save Planet.” The event aimed to create awareness among students about the importance of water conservation and to encourage sustainable practices to protect our planet.



CLEAN CAMPUS DRIVE









DATE: 04.04.2025

Participants: Students of Department of Civil Engineering, KSRCE

As part of the institution’s commitment to environmental hygiene and student-driven social responsibility, the Department of Civil Engineering at K.S.R. College of Engineering organized a “Clean Campus Drive” on April 4, 2025. The initiative was aimed at promoting cleanliness, instilling civic responsibility among students, and maintaining a healthy and green campus environment.




LIST OF PUBLICATIONS


S. NO	TITLE OF THE JOURNAL	FACULTY PHOTO	MONTH & YEAR
1	Gopi, Rajamanickam & Vaiyapuri, Revathi. (2025). Evaluation of self compacting concrete performance incorporated with presoaked lightweight aggregates. Matéria (Rio de Janeiro). 30. 10.1590/1517-7076-rmat-2024-0813. (SCI - Q2)		Jan 2025
2	P.Sudha, G.Dineshkumar, P.Loganathan, N.Muralimohan, Study on the Polymeric Treatment with Rice Husk Silica on Sisal Fiber in Cementitious Composites, Journal of Environmental Engineering & Landscape Management, https://doi.org/10.3846/jeelm.2025.23566 . (SCI - Q3)	 	Jan 2025
2	Murugesan, E., Shanmugamoorthy, S., Veerasamy, S. et al. Drought assessment in Coimbatore South region, Tamil Nadu, India, using remote sensing and meteorological data. J Earth Syst Sci 134, 40 (2025). https://doi.org/10.1007/s12040-024-02487-w . (SCI - Q2)		Feb 2025
3	Natarajan, . RG, Shanmugamoorthy, S., Veerasamy, S., John, A. (2025). Flexural behavior of sustainable reinforced concrete beams with high fly ash content, GRADEVINAR, 77 (1), 13-25, doi: https://doi.org/10.14256/JCE.3830.2023 (SCI - Q3)		Feb 2025
4	G.Rajamanickam,R. Vaiyapuri, (2025). Investigations on self compacting concrete using fly ash and light expanded clay aggregates. Zastita Materijala, 66 (2025). https://doi.org/10.62638/ZasMat1341 .		Feb 2025
5	A.Thomas Eucharist, Dr.V.Revathi , Strength Aspects of Sugarcane Bagasse Ash - Ground Granulated Blast Furnace Slag Blend Geopolymer Mortar and Concrete, Romanian Journal of Materials 2025, 55 (1) (SCI - Q4)	 	Jun 2025

LIST OF PATENTS

S.NO	TITLE	PHOTO
1	Dr.N.Muralimohan,Dr.G.Brindha, Dr.D.Senthilkumar, IOT Based System and method for Remotely Controlling Vehicle, Application No.:202421098413, published on 17.01.2025	
2	Gnanapragasam Gunasekaran, R.Gowrishankar, A.Vijayakumar, Dr.S.Saravanan, Dr.TriptiDe, Dr.C.Karthik, T.Vijayashankar, Treatment of Two industrial waste water (SAGO and Textile Dyeing) using UASB Reactor, Application No.: 202541021079 A, published on 21.03.2025.	



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India



INTELLECTUAL PROPERTY INDIA
INNOVATION ECOSYSTEM

Application Details	
APPLICATION NUMBER	202421098413
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/12/2024
APPLICANT NAME	1. Nishakha D Bhaskar 2. Dr N.Muralimohan 3. Dr G.Brindha 4. Dr D.Senthil Kumar 5. Dr Arif Uddin 6. Dr C.Nagaranjan 7. Dr A.Nagabharatham
TITLE OF INVENTION	IOT BASED SYSTEM AND METHOD FOR REMOTELY CONTROLLING VEHICLE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As per Receipt)	
ADDITIONAL E-MAIL (As per Receipt)	
E-MAIL (SOPHISTICATED CHIRMS)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	12/12/2024
PUBLICATION DATE (US 13A)	17/01/2025

Application Status	
APPLICATION STATUS	Application Awaiting Examination
View Documents	
<div> <div>Filed</div> <div>RD To EOL</div> <div>Published</div> <div>Under Examination</div> <div>Disposed</div> </div>	

In case of any discrepancy in status, kindly contact: ip.inquiry@ipindia.gov.in

(12) PRIORITY APPLICATION PUBLICATION	(13) Application No. 202421098413 A
(14) ISDA	
(15) Date of filing of Application: 08/09/2023	(16) Publication Date: 17/01/2025
(17) Title of the invention: Treatment of Two industrial wastewater (SAGO and Textile Dyeing) using UASB Reactor	
(18) Inventor(s)	(19) Name of Applicant
(20) Inventor(s) Address	(21) Name of Applicant
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(99) Inventor(s) Address	(100) Name of Applicant

(11) Abstract
The present invention relates to a method for the treatment of industrial wastewater (SAGO and Textile Dyeing) using UASB Reactor. The method involves the use of a UASB Reactor, which is a type of anaerobic digester. The wastewater is fed into the reactor, and the microorganisms in the reactor break down the organic matter in the wastewater, producing biogas and a treated effluent. The biogas is collected and used as a fuel source, and the treated effluent is discharged into a water body. The method is simple, efficient, and cost-effective, and it can be used for the treatment of a wide range of industrial wastewater.

No. of Pages: 3 No. of Claims: 3

STUDENT ACHIEVEMENTS

Ms. Rashniya S of First Year, Civil Engineering, K.S.R. College of Engineering has successfully completed the **Innovation Ambassador (IA) Advanced Level** Training conducted by MoE's Innovation Cell and AICTE. The training was held online during the academic year 2024-25, covering 16 sessions and 30 contact hours. This program enhanced her skills in innovation, entrepreneurship, and mentoring. She received an e-certificate on 05-03-2025, acknowledging her participation and achievement.



S. Mohana Priya, M. Laksita, S. Soundarya, and S. Rashniya from the Civil Department of K.S.R. College of Engineering have been honored with the **Women Civil Engineer Award**. The award was presented by the Tiruchengode City Civil Engineers' Association on 12.03.2025. This recognition celebrates their outstanding potential and contributions in the field of civil engineering. The achievement highlights the excellence and commitment of KSRCE students in professional forums.



Mr. A. Soundararajan, a III Year Civil Engineering student of K.S.R. College of Engineering, successfully completed the NPTEL course on **Environmental Impact Assessment (EIA)** during the Jan-April 2025 session. He secured an **Elite + Silver** certificate, demonstrating academic excellence and dedication. The department congratulates him on this commendable achievement.



Ms. A. Mohanapriya, a III Year Civil Engineering student of K.S.R. College of Engineering, has secured an Elite certificate in the **Air Pollution and Control** NPTEL course. She has also successfully completed the **Plastic Waste Management** course during the Jan-April 2025 session. The department appreciates her consistent efforts and academic dedication.



FACULTY NPTEL ACHIEVERS



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ACCREDITED **A++**

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DEPARTMENT OF CIVIL ENGINEERING

NPTEL ACHIEVERS - (2024 - 2025) EVEN SEMESTER



Mr. S. DINESHKUMAR
Assistant Professor
Introduction to Civil
Engineering Profession

71

Elite



Dr. P. PRASANTHNI
Associate Professor
Introduction to Civil
Engineering Profession

69

Elite



Mr. S. SARAVANAGANESH
Assistant Professor
Introduction to Civil
Engineering Profession

68

Elite



Mr. D. KANAGARAJ
Assistant Professor
Maintenance and Repair
of concrete Structures

64

Elite

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Dr. M. Gunasekaran, Associate Professor, Department of Civil Engineering, K.S.R. College of Engineering, received the **Excellence Award** from EDCEA, Erode for the period 2005-2025. The award recognizes his commitment, dedication, service, and unwavering support to the EDCEA Association, Erode. The institution congratulates him on this prestigious honor and his continued contribution to the engineering community.



